International Conference

# S+M(L)=KI[14]

Faculty of Chemical Engineering and Technology Zagreb

Croatian Society of Chemical Engineers

## XIV Meeting of Young Chemical Engineers

S+M(L)=KI[14]

24th and 25th February 2022

EuChemS
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# CONFERENCE PROGRAM

# Program skupa

XIV. susret mladih kemijskih inženjera

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*BOOK OF ABSTRACTS* |
KNJIGA SAŽETAKA

*CONFERENCE PROGRAM* |
PROGRAM SKUPA

## MJESTO ODRŽAVANJA | *VENUE*

Fakultet kemijskog inženjerstva i tehnologije | *Faculty of Chemical Engineering and Technology*
Zagreb, Marulićev trg 19 & 20

| | |
|---|---|
| Velika dvorana \| *Hall A* | Marulićev trg 19 |
| Predavaonica A – podrum \| *Lecture room A – basement* | Marulićev trg 19 |
| Velika dvorana \| *Hall B* | Marulićev trg 20 |
| Predavaonica B – prvi kat \| *Lecture room B – the first floor* | Marulićev trg 20 |

## PRIJAVE SUDIONIKA | *REGISTRATIONS*

Ulazni hol u glavnoj zgradi | *Entrance hall in the main building* — Marulićev trg 19

| | |
|---|---|
| Četvrtak, 24. veljače 2022.\| *Thursday, 24th February 2022* | 08:00 – 17:00 |
| Petak, 25. veljače 2022.\| *Friday, 25th February 2022* | 08:00 – 10:00 |

## OTVARANJE SUSRETA | *OPENING CEREMONY*

Velika dvorana | *Hall A* — Marulićev trg 19

| | |
|---|---|
| Četvrtak, 24. veljače 2022.\| *Thursday, 24th February 2022* | 09:00 – 10:00 |

## USMENA IZLAGANJA | *ORAL PRESENTATIONS*

Velike dvorane, prema rasporedu | *Hall A & B, according to the timetable* — Marulićev trg 19 & 20

| | |
|---|---|
| Četvrtak, 24. veljače 2022.\| *Thursday, 24th February 2022* | 10:00 – 16:45 |
| Petak, 25. veljače 2022.\| *Friday, 25th February 2022* | 09:00 – 16:15 |

## POSTERI | *POSTERS*

Predavaonice A i B – podrum i prvi kat, prema rasporedu \| *Lecture rooms A & B – basement and the first floor, according to the timetable* — Marulićev trg 19 & 20

| | | |
|---|---|---|
| Četvrtak, 24. veljače 2022.\| *Thursday, 24th February 2022* | 09:00 – 17:45 | posteri s brojem\| *posters with number* 1 – 80 |
| Petak, 25. veljače 2022.\| *Friday, 25th February 2022* | 09:00 – 15:15 | posteri s brojem \| *posters with number* 81 – 161 |

Postere je potrebno postaviti na panoe na dan definiran rasporedom ujutro (8:00 – 9:00 h) i skinuti na kraju dana. | *Posters should be placed on the boards in the morning (8:00 – 9:00 h) according to the timetable and be removed at the end of the day.*

## POSTERSKA SEKCIJA | *POSTER SESSION*

| | | |
|---|---|---|
| Četvrtak, 24. veljače 2022.\| *Thursday, 24th February 2022* | 16:45 – 17:45 | posteri s brojem\| *posters with number* 1 – 80 |
| Petak, 25. veljače 2022.\| *Friday, 25th February 2022* | 14:15 – 15:15 | posteri s brojem \| *posters with number* 81 – 161 |

Mole se autori da budu pokraj postera za vrijeme posterske sekcije. |
*Authors are kindly invited to stand by their posters during poster session.*

| **ZATVARANJE SUSRETA I DODJELA NAGRADA \| *CLOSING CEREMONY AND AWARDS*** | |
|---|---|
| Velika dvorana \| *Hall A* | Marulićev trg 19 |
| Petak, 25. veljače 2022.\|<br>*Friday, 25th February 2022* | 16:30 – 17:15 |

| **DOMJENAK \| *BANQUET*** | |
|---|---|
| Klub nastavnika – podrum \| *The Faculty Club – basement* | Marulićev trg 20 |
| Petak, 25. veljače 2022.\|<br>*Friday, 25th February 2022* | 17:30 – |

**ČETVRTAK, 24. veljače 2022.** ***THURSDAY, 24th February 2022***

09:00 – 10:00 Otvaranje Susreta | *Opening ceremony*

Velika dvorana | *Hall A* Marulićev trg 19

**PLENARNO PREDAVANJE | *PLENARY LECTURE***

Moderatori | *Chairs:* Krunoslav Žižek, Igor Dejanović

10:00 – 11:00 Steffen Wagner
*4TH INDUSTRIAL REVOLUTION DRIVEN BY DIGITALIZATION AND DIGITAL TWIN*

11:00 – 11:45 STANKA ZA KAVU | *COFFEE BREAK*

**POZVANA PREDAVANJA | *INVITED LECTURES***

Moderatori | *Chairs:* Domagoj Vrsaljko, Igor Dejanović

11:45 – 12:15 Petar Kassal
*NANOPARTICLE-BASED CONDUCTIVE INKS FOR INKJET PRINTING OF PLANAR ELECTRODES*

12:15 – 12:45 Jerome Le Cunff
*PROBLEM SOLVING IN THE PHARMACEUTICAL INDUSTRY, 3 CASE STUDIES*

12:45 – 13:15 Boris Zimmermann
*APPLICATIONS OF VIBRATIONAL SPECTROSCOPY IN MICROBIAL BIOTECHNOLOGY*

13:15 – 14:15 STANKA ZA KAVU | *COFFEE BREAK*

**USMENA IZLAGANJA | *ORAL PRESENTATIONS***

Velika dvorana | *Hall B* Marulićev trg 20

**Analiza, sinteza i vođenje procesa | *Process analysis, synthesis and design***

Moderatori | *Chairs:* Zvonimir Katančić, Filip Car

14:15 – 14:30 Mia Gotovuša, Ivona Pečurlić, Valentino Petrić, Paula Huzjak, Marta Krasić, Martina Zadravec, Jelena Parlov-Vuković, Lucija Konjević, Fabio Faraguna
*THE INFLUENCE OF THE ALCOHOL BUTANOL STRUCTURAL BRANCHING AND THE FEEDSTOCK TYPE ON THE SYNTHESIS AND APPLICATION PROPERTIES OF FATTY ACID (ISO)BUTYL ESTERS*

14:30 – 14:45 Natko Krajina, Nikolina Beljan, Ivan Nemet, Sanda Rončević
*LASER ABLATION INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY (LA-ICP-MS)*

14:45 – 15:00 Josip Sacher, Matea Gavran, Nenad Bolf, Željka Ujević Andrijić
*IMPROVEMENT OF GRANULOMETRIC PROPERTIES OF CRYSTALS BY CONSTANT SUPERSATURATION FEEDBACK CONTROL*

## Primijenjena kemija | *Applied chemistry*

Moderatori | *Chairs:* Dragana Vuk, Dajana Kučić Grgić

15:00 – 15:15 **Višnja Stepanić**
*MACHINE-LEARNING IN CHEMISTRY*

15:15 – 15:30 **Lucija Hok**, Hrvoje Rimac, Janez Mavri, Robert Vianello
*COMPUTATIONAL STUDY OF NEURODEGENERATION RELATED TO COVID-19 INFECTION*

15:30 – 16:00 STANKA ZA KAVU | *COFFEE BREAK*

16:00 – 16:15 **Vilma Lovrinčević**, Dragana Vuk, Irena Škorić, Nikola Basarić
RAZVOJ AMINONAFTALENSKIH FOTOUKLONJIVIH ZAŠTITNIH SKUPINA
*DEVELOPMENT OF AMINONAPHTHALENE PHOTOREMOVABLE PROTECTING GROUPS*

16:15 – 16:30 **Valentina Martinez**, Senada Muratović, Bahar Karadeniz, Yulia Krupskaya, Vladislav Kataev, Dijana Žilić, Krunoslav Užarević
EPR UVID U MAGNETSKA SVOJSTVA DVOMETALNIH BAKAR/CINK MOF-74 MATERIJALA
*EPR INSIGHT INTO MAGNETIC PROPERTIES OF BIMETALLIC COPPER/ZINC MOF-74 MATERIALS*

16:30 – 16:45 **Josipa Sarjanović**, Edi Topić, Mirta Rubčić, Jana Pisk
*COORDINATION PUZZLES WITH MOLYBDENUM SCHIFF BASE COMPLEXES*

16:45 – 17:45 **POSTERSKA SEKCIJA | *POSTER SESSION***

Predavaonica B – prvi kat | *Lecture room B – the first floor* Marulićev trg 20

posteri s brojem | *posters with number* 1 – 40

**USMENA IZLAGANJA | *ORAL PRESENTATIONS***

Velika dvorana | *Hall A* Marulićev trg 19

**Ekoinženjerstvo | *Environmental engineering***

Moderatori | *Chairs:* Krunoslav Žižek, Marin Kovačić

14:15 – 14:30 **Martina Miloloža**, Amadea Badurina Petričević, Lucija Anzulović, Kristina Bule, Viktorija Prevarić, Matija Cvetnić, Marinko Markić, Vesna Ocelić Bulatović, Šime Ukić, Tomislav Bolanča, Dajana Kučić Grgić
BIORAZGRADNJA MIKROPLASTIKE POLISTIRENA PRIMJENOM BAKTERIJSKIH KULTURA
*BIODEGRADATION OF MICROPLASTICS POLYSTYRENE USING BACTERIAL CULTURE*

**Reakcijsko inženjerstvo | *Reaction engineering***

Moderatori | *Chairs:* Krunoslav Žižek, Marin Kovačić

14:30 – 14:45 **Želimir Kurtanjek**
KEMIJSKO INŽENJERSTVO, KAUZALNOST I UMJETNA INTELIGENCIJA
*CHEMICAL ENGINEERING, CAUSALITY AND ARTIFICIAL INTELLIGENCE*

14:45 – 15:00 **Ivan Karlo Cingesar**, Domagoj Vrsaljko
*INFLUENCE OF STATIC MIXER GEOMETRY ON BIODIESEL SYNTHESIS*

**Razvoj materijala i proizvoda | *Materials and products development***

Moderatori | *Chairs:* Anamarija Rogina, Vilko Mandić

15:00 – 15:15 **Marijan-Pere Marković**, Ivan Karlo Cingesar, Laura Keran, Domagoj Prlić, Domagoj Vrsaljko
*PREPARATION OF NEW FUNCTIONAL FILAMENTS – PET-G/$TiO_2$ AND PET-G/$TiO_2$/CNT COMPOSITES*

15:15 – 15:30 **Nikola Jakupec**, Lidija Posavec, Dominik Cinčić, Ana Palčić
UTJECAJ $[Ni(NCS)_2(L)_4]$ (L = py, 4-mepy, 3,5-lut) KOMPLEKSA NA SINTEZU SILIKALITA-1
*EFFECT OF $[Ni(NCS)_2(L)_4]$ (L = py, 4-mepy, 3,5-lut) COMPLEXES ON THE SYNTHESIS OF SILICALITE-1*

15:30 – 16:00 STANKA ZA KAVU | COFFEE BREAK

Moderatori | *Chairs*: Anamarija Rogina, Vilko Mandić

16:00 – 16:15 **Zoran Malbaša**, Andrea Lončarević, Anamarija Rogina
*SYNTHESIS OF BIMETALLIC–CHITOSAN COMPLEXES AS ANTIBACTERIAL MATERIALS*

16:15 – 16:30 **Lea Čolakić**, Mateja Pisačić , Marijana Đaković
FLEKSIBILNI KRISTALI KADMIJEVIH(II) HALOGENIDA S DIKLORPIRIDINSKIM LIGANDIMA
*FLEXIBLE CRYSTALS OF CADMIUM(II) HALOGENIDES WITH DICHLOROPYRIDINE LIGANDS*

16:30 – 16:45 **Tin Klačić**, Nikolina Peranić, Borna Radatović, Davor Kovačević
*SYNTHESIS AND CHARACTERIZATION OF MULTILAYER NANOCAPSULES MADE OF WEAK POLYELECTROLYTES*

16:45 – 17:45 **POSTERSKA SEKCIJA | *POSTER SESSION***

Predavaonica A – podrum | *Lecture room A – basement* Marulićev trg 19

posteri s brojem | *posters with number* 41 – 80

**PETAK, 25. veljače 2022.** ***FRIDAY, 25th February 2022***

**PLENARNO PREDAVANJE | *PLENARY LECTURE***

Velika dvorana | Hall A — Marulićev trg 19

Moderatori | *Chairs*: Krunoslav Žižek, Domagoj Vrsaljko

09:00 – 10:00 Ivan Đikić
*PROXIDRUGS: NEW THERAPEUTIC OPTIONS FOR NUMEROUS DISEASES*

**POZVANA PREDAVANJA | *INVITED LECTURES***

Moderatori | *Chairs*: Krunoslav Žižek, Domagoj Vrsaljko

10:00 – 10:30 Jakov Mihaljević
*ENGINEERING, ECONOMICS OR MANAGEMENT? WHAT IS THE MOST IMPORTANT AND YOUR CHOICE?*

10:30 – 11:00 STANKA ZA KAVU | *COFFEE BREAK*

Moderatori | *Chairs*: Zvonimir Katančić, Marin Kovačić

11:00 – 11:30 Michaël Tatoulian
*PLASMA TECHNOLOGY: AN INNOVATIVE TOOL TO ENGINEER CHEMICAL REACTIONS*

11:30 – 12:00 Marija Ćosić
UTJECAJ DJELOVANJA ULTRAZVUKA U ŠARŽNOM KRISTALIZATORU NA KINETIKU NUKLEACIJE I RASTA KRISTALA
*INFLUENCE OF ULTRASOUND IRRADIATION IN BATCH CRYSTALLIZER ON NUCLEATION AND CRYSTAL GROWTH KINETICS*

**IZLAGANJA SPONZORA | *SPONSOR PRESENTATIONS***

Moderatori | *Chairs*: Krunoslav Žižek, Igor Dejanović

12:00 – 12:15 Tajana Mokrović, HANNA INSTRUMENTS
HANNA INSTRUMENTS – INOVACIJE U LABORATORIJSKOJ ANALIZI

12:15 – 12:30 Ines Vujasinović, FIDELTA
FIDELTA – GLOBALNI PARTNER U ISTRAŽIVANJU LIJEKOVA

12:30 – 12:45 Keith Racman, METTLER TOLEDO
*LATEST TECHNOLOGY DEVELOPMENTS FOR LABORATORY REACTORS, IN-SITU PARTICLE SYSTEM CHARACTERIZATION AND IN-SITU SPECTROSCOPY TOGETHER WITH ADVANCED DATA SYSTEMS*

12:45 – 13:00 Lucija Ivanjko, SHIMADZU
NOVE MOGUĆNOSTI MASENE SPEKTROMETRIJE - LCMS-8060 NX

13:00 – 13:15 Anđelka Toto-Ormuž, ROCKWOOL
JESTE LI ZNALI DA 1/3 UKUPNOG OTPADA DOLAZI IZ GRAĐEVINSKOG SEKTORA?

13:15 – 13:30 Matea Kovač i Silvija Bukvić, ALPHACHROM
GLOBALNI PROBLEM NEVIDLJIV GOLIM OKOM – NAJNOVIJE METODE ZA ANALIZU MIKROPLASTIKE

13:30 – 14:15 STANKA ZA KAVU | *COFFEE BREAK*

14:15 – 15:15 **POSTERSKA SEKCIJA | *POSTER SESSION***

Predavaonica B – prvi kat | *Lecture room B – the first floor* Marulićev trg 20

posteri s brojem | *posters with number* 81 – 120

**USMENA IZLAGANJA | *ORAL PRESENTATIONS***

Velika dvorana | *Hall B* Marulićev trg 20

**Primijenjena kemija | *Applied chemistry***

Moderatori | *Chairs:* Dragana Vuk, Dajana Kučić Grgić

15:15 – 15:30 Andrej Kukuruzar, Dalibor Stanković
*EFFECT OF DIFFERENT MORPHOLOGY OF LEAD DIOXIDE IN COMPOSITE WITH GRAPHITIC CARBON NITRIDE FOR ELECTROCHEMICAL DEGRADATION OF FLUORESCENT TAG DYES*

15:30 – 15:45 Sara Krivačić, Marko Zubak, Petar Kassal
RAZVOJ INKJET TISKANE ČVRSTOFAZNE Ag/AgCl REFERENTNE ELEKTRODE
*THE DEVELOPMENT OF AN INKJET PRINTED SOLID STATE Ag/AgCl REFERENCE ELECTRODE*

15:45 – 16:00 Mihajlo Valuh, Emilija Nikolić, Snežana Vučetić
*CHARACTERIZATION OF HISTORICAL MORTARS AND IDENTIFICATION OF THEIR PREPARATION TECHNOLOGY: ROMAN MILITARY CAMP VIMINACIUM*

16:00 – 16:30 STANKA ZA KAVU | *COFFEE BREAK*

| 14:15 – 15:15 | **POSTERSKA SEKCIJA \| *POSTER SESSION*** |
|---|---|
| Predavaonica A – podrum \| *Lecture room A – basement* | Marulićev trg 19 |

posteri s brojem \| *posters with number* 121 – 161

**USMENA IZLAGANJA \| *ORAL PRESENTATIONS***

Velika dvorana \| *Hall A* — Marulićev trg 19

**Razvoj materijala i proizvoda \| *Materials and products development***

Moderatori \| *Chairs:* Domagoj Vrsaljko, Filip Car

15:15 – 15:30 **Sanja Renka**, Luka Pavić, Grégory Tricot, Petr Mošner, Ladislav Koudelka, Andrea Moguš-Milanković, Ana Šantić
POVEĆANJE IONSKE VODLJIVOSTI NATRIJEVOG FOSFATNOG STAKLA DODATKOM $WO_3$ I $MoO_3$
*ENHANCEMENT OF IONIC CONDUCTIVITY IN SODIUM PHOPSHATE GLASSES BY ADDITION OF $WO_3$ AND $MoO_3$*

15:30 – 15:45 **Marta Razum**, Luka Pavić, Damir Pajić, Jana Pisk, Tihana Čižmar, Ana Šantić
UTJECAJ MOLIBDENOVOG(VI) OKSIDA NA STRUKTURU I POLARONSKU PROVODNOST VANADATNO-FOSFATNIH STAKALA
*INFLUENCE OF MOLYBDENE(VI) OXIDE ON THE STRUCTURE AND POLARONIC CONDUCTIVITY OF VANADIUM PHOSPHATE GLASSES*

15:45 – 16:00 **Josipa Skočibušić Pejić**, Marijana Serdar
*CHARACTERISATION OF CALCIUM ALUMINATE CEMENT HYDRATION*

16:00 – 16:15 **Sara Marijan**, Marta Razum, Teodoro Klaser, Marijan Marciuš, Željko Skoko, Jana Pisk, Luka Pavić
*ELECTRICAL AND STRUCTURAL PROPERTIES OF $Na_2O$-$V_2O_5$-$P_2O_5$-$Nb_2O_5$ GLASSES*

16:15 – 16:30 STANKA ZA KAVU \| *COFFEE BREAK*

**ZATVARANJE SUSRETA I DODJELA NAGRADA \| *CLOSING CEREMONY AND AWARDS***

Velika dvorana \| *Hall A* — Marulićev trg 19

Petak, 25. veljače 2022.\|
*Friday, 25th February 2022* — 16:30 – 17:15

**DOMJENAK \| *BANQUET***

Klub nastavnika – podrum \| *The Faculty Club – basement* — Marulićev trg 20

Petak, 25. veljače 2022.\|
*Friday, 25th February 2022* — 17:30 –

**POSTERSKA IZLAGANJA**

***POSTER PRESENTATIONS***

**ČETVRTAK, 24. veljače 2022.** ***THURSDAY, 24th February 2022***

## Analiza, sinteza i vođenje procesa | *Process analysis, synthesis and design*

1 Veronika Barišić, Ivana Flanjak, Antun Jozinović, Jurislav Babić, Drago Šubarić, Đurđica Ačkar
*AN IMPROVED SPECTROPHOTOMETRIC METHOD FOR THE DETERMINATION OF PEROXIDE VALUE IN FATS FOR CHOCOLATE PRODUCTION*

2 Ivana Buljeta, Anita Pichler, Josip Šimunović, Mirela Kopjar
*INFLUENCE OF DISACCHARIDES ON COMPLEX FORMATION OF β-CYCLODEXTRIN WITH CATECHIN*

3 Matea Gavran, Josip Sacher, Nenad Bolf, Željka Ujević Andrijić
*COMPARISON OF LINEAR CALIBRATION MODELS FOR PREDICTING GLYCINE CONCENTRATIO*

4 Ana-Marija Gotal Skoko, Tihomir Kovač, Ante Lončarić
*TRADITIONAL APPLE CULTIVARS POLYPHENOLIC PROFILE ANALYSIS AND THEIR RESISTANCE TO INFECTION BY PENICILLIUM EXPANSUM*

5 Martina Jakovljević Kovač, Mario Komar, Melita Lončarić, Stela Jokić, Maja Molnar
*DETERMINATION OF CANNABINOIDS IN CANNABIS SATIVA EXTRACTS OBTAINED BY CONVENTIONAL AND DEEP EUTECTIC SOLVENTS*

6 Ivona Kristan, Draginja Mrvoš-Sermek
RENDGENSKA STRUKTURNA ANALIZA U RAZREDU – INTEGRIRANO POUČAVANJE
*X–RAY STRUCTURAL ANALYSIS IN THE CLASSROOM – INTEGRATED TEACHING*

7 Josipa Lauc, Dajana Oreč, Ivan Nemet, Sanda Rončević
*APPLICATION OF INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICP-MS) IN ANALYSIS OF SORPTION OF SELECTED LANTHANIDES ON IRON NANOPARTICLES*

8 Nikola Rimac, Željka Ujević Andrijić
PRAĆENJE NASTAJANJA NASLAGA POMOĆU MODELA NEURONSKIH MREŽA S PROCIJENJENIM NEMJERENIM PROCESNIM VARIJABLAMA U IZMJENJIVAČIMA TOPLINE ZA PREDGRIJAVANJE SIROVE NAFTE
*FOULING DEPOSTION MONITORING USING NEURAL NETWORK MODELS WITH ESTIMATED UNMEASURED PROCESS VARIABLES IN CRUDE OIL PRE-HEAT HEAT EXCHANGERS*

## Biokemijsko inženjerstvo | *Biochemical engineering*

9 Ivana Ćevid, Ana Antolović, Nevena Milčić, Maja Majerić Elenkov, Zvjezdana Findrik Blažević
EVALUACIJA NITRILAZA KAO BIOKATALIZATORA ZA SINTEZU (R)-4-KLORO-3 HIDROKSIBUTANSKE KISELINE
*EVALUATION OF NITRILASES AS BIOCATALYSTS FOR THE SYNTHESIS OF (R)-4-CHLORO-3-HYDROXYBUTYRIC ACID*

10 Patricia Galović, Zrinka Tabain, Manuela Panić, Mia Radović, Marina Cvjeko Bubalo, Ivana Radojčić Redovniković
*RATIONAL DESIGN OF DEEP EUTECTIC SOLVENTS FOR LIPASE CATALYZED KINETIC RESOLUTION (R,S)-1-PHENYLETHANOL*

11 Dora Gošev, Ivona Buljan, Josipa Jurčić, Martina Kosić, Franka Maretić, Antonija Matoš, Sara Nadoveza, Anđela Sinković, Maja Benković, Tamara Jurina, Davor Valinger, Jasenka Gajdoš Kljusurić, Ana Jurinjak Tušek
*NUTRITIONAL SYSTEM BIOLOGY: ADVANTAGES, APPLICATIONS AND FUTURE PERSPECTIVE*

12 Stella Hamilton, Dino Skendrović, Ana Vrsalović Presečki
KINETIČKA KARAKTERIZACIJA IMOBILIZIRANE ALDOLAZE
*KINETICAL CHARACTERIZATION OF IMMOBILIZED ALDOLASE*

13 Gordana Hojnik Podrepšek, Željko Knez, Maja Leitgeb
*PREPARATION OF DEFATTED WHEAT FLOUR*

14 Anna Ipša, Ena Jurina, Iva Ljubičić, Patricia Štriga, Mirza Bojić
BIOKEMIJSKA OSNOVA ODABRANIH SLUČAJEVA IZ TV SERIJE "UVOD U ANATOMIJU"
*BIOCHEMICAL BASIS OF SELECTED CASES FROM THE TV SHOW „GREY'S ANATOMY"*

15 Marko Kolarić, Davor Mamuzić, Darijo Šibalić, Marina Tišma
SAHARIFIKACIJA LIGNOCELULOZNE BIOMASE ENZIMSKIM KOKTELOM IZ T. LANUGINOSUS

16 Nika Kučuk, Mateja Primožič, Željko Knez, Maja Leitgeb
*AMERICAN BLUEBERRIES (VACCINIUM CORYMBOSUM L.) AS A SOURCE OF BIOACTIVE SUBSTANCES*

17 Kaja Kupnik, Mateja Primožič, Željko Knez, Maja Leitgeb
*AQUEOUS EXTRACTS OF EXOTIC FRUIT PEELS AS A SOURCE OF BIOACTIVE AND HIGH VALUE-ADDED COMPOUNDS*

18 Petra Maleš, Zlatko Brkljača, Danijela Bakarić
*LOVE OR COMPULSION RELATIONSHIP BETWEEN MYELIN BASIC PROTEIN AND PHOSPHATIDYLCHOLINE LIPIDS*

19 Nevena Milčić, Petra Marin, Mirela Kovačević, Magdalena Kolić, Krešimir Kos, Martina Sudar, Katja Vasić, Gordana Hojnik Podrepšek, Mateja Primožič, Maja Leitgeb, Maja Majerić Elenkov, Zvjezdana Findrik Blažević
IMOBILIZACIJA HALOGENHIDRIN-DEHALOGENAZE METODOM KAPSULIRANJA U METALO-ORGANSKE MREŽE
*IMMOBILIZATION OF HALOHYDRIN DEHALOGENASE VIA ENCAPSULATION IN METAL-ORGANIC FRAMEWORKS*

20 Katarina Muzica, Ana Čurić, Ana Šket, Marija Vuković Domanovac
BIORAZGRADNJA KSENOBIOTIKA POMOĆU OKOLIŠNIH MIKROORGANIZAMA
*BIODEGRADATION OF XENOBIOTICS BY ENVIRONMENTAL MICROORGANISMS*

21 Iva Polonji, Ivana Stojmilović, Monika Šabić Runjavec, Marija Vuković Domanovac
TRANSFORMACIJA HERBICIDA U OKOLIŠU POMOĆU AUTOHTONIH MIKROORGANIZAMA
*TRANSFORMATION OF HERBICIDES IN ENVIRONMENT WITH INDIGENOUS MICROORGANISMS*

22 Lea Raos, Karla Radak, Marija Vuković Domanovac
NOVI MIKROBNI IZVORI KOJI SE MOGU KORISTITI U BIOREMEDIJACIJI
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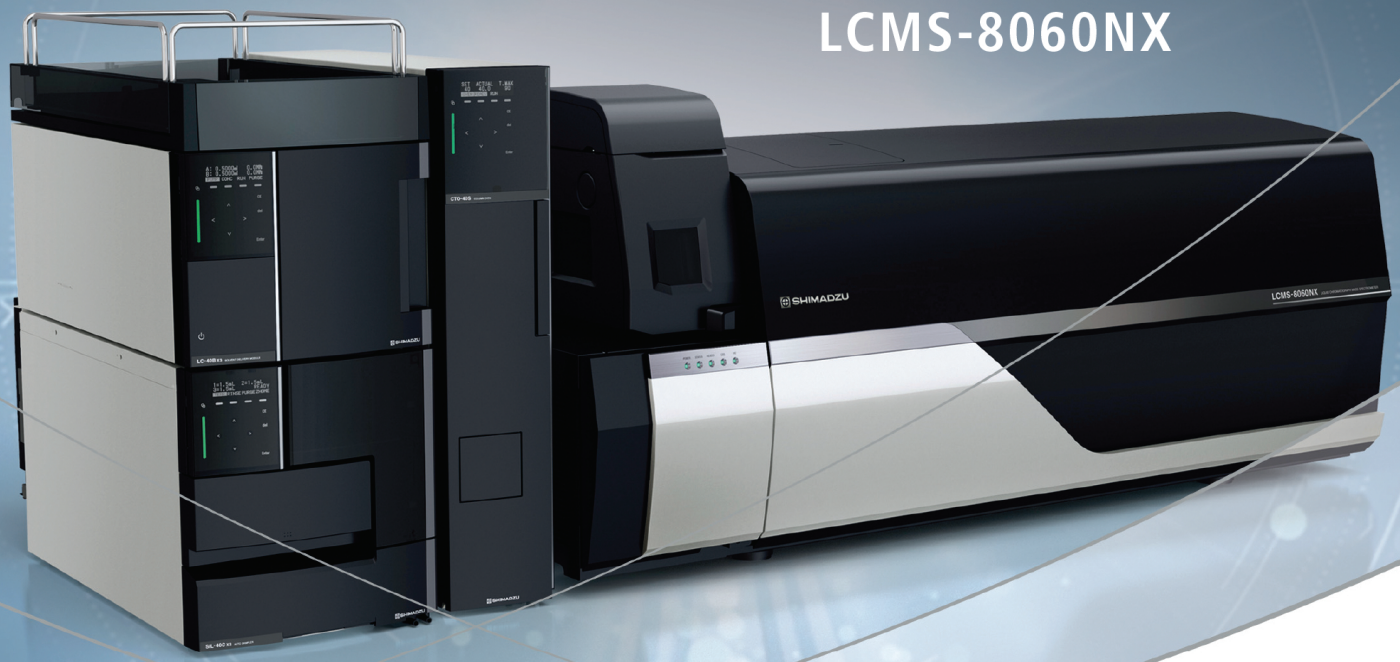

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Sveučilišta u Zagrebu

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# COVID-19

Bolest uzrokovana virusom SARS-CoV-2
Disease caused by SARS-CoV-2 Virus

## Zaštita:

- Redovito perite ruke sapunom i vodom ILI koristite antiseptik na bazi alkohola
- Kada kašljete i kišete prekrijte usta i nos laktom ili papirnatom maramicom koju poslije odbacite u koš za otpad te operite ruke
- Izbjegavajte dodirivanje lica, usta i očiju
- Izbjegavajte bliski kontakt s osobama koje imaju povišenu tjelesnu temperaturu, kašalj i/ili kratak dah
- Izbjegavajte rukovanje i održavajte razmak od barem 1m kod razgovora
- Provjetravajte prostorije i boravite što više na otvorenom
- Izbjegavajte veće grupe ljudi i javna okupljanja

## Protection:

- Wash your hands regularly with soap and water OR use an alcohol-based antiseptic
- When coughing and sneezing, cover your mouth and nose with your elbow or tissue paper that you later discard into the trash can and wash your hands
- Avoid touching your face, mouth and eyes
- Avoid close contact with sick people who have fever, coughing and / or shortness of breath
- Avoid handling and close conversation - maintain a distance of at least 1m
- Kip the rooms ventilated and try to spend as much time as possible out in the open
- Avoid larger group of people and public gatherings

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**Hanna Instruments nudi široki spektar uređaja za laboratorijsku analizu. Neprestano ulažemo u istraživanje i razvoj kako bismo poboljšali svoje znanje i proširili naše tehnologije.**

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